

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03762				SHEET 1 OF 1	
	DWG NO. 647.9400	REV: A	PREPARED BY B. PETERS	DATE: 01/07/13	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: DEFLECTORS					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED HOLE DIAMETER TO REFLECT PIN DIAMETER IN NEXT ASSY.				

Superseded

TAG	X LOC	Y LOC	SIZE
A1	-8.949	-4.066	Ø .201
A2	-6.172	-3.562	Ø .201
B1	-7.903	-5.121	Ø .253
C1	-5.978	-.267	Ø .165
C2	-3.863	-.267	Ø .165
C3	-1.758	-.267	Ø .165
D1	-5.159	-2.500	Ø .250

IS

SHEET 9, ZONE C8 IS:

DOCUMENTS EFFECTED:	<input type="checkbox"/> RFMS <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input type="checkbox"/> BOM	CHANGE CATEGORY	DER REVIEW REQUIRED
		<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

APICAL
INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 03739

SHEET 1 OF 1

DWG NO. 647.9400

REV: A

PREPARED
BY B. PETERS

DATE: 12/07/12

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: DEFLECTORS

APPROVED BY:

ENGR

MFG

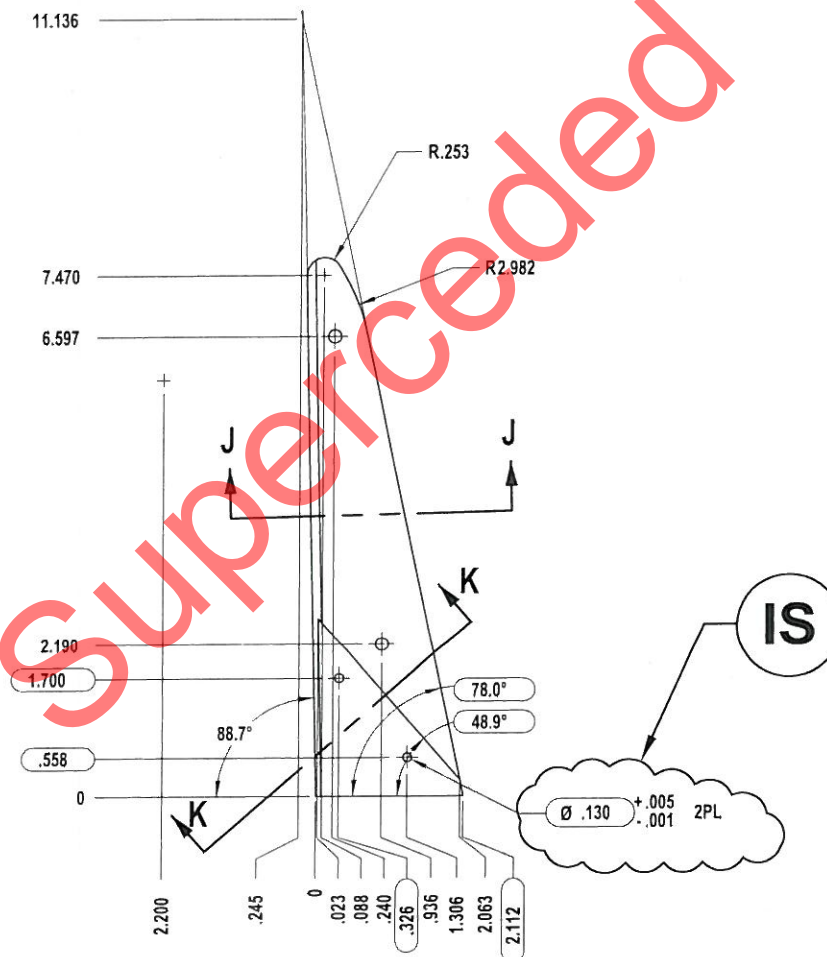
QC

EFF: NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON:

REVISED TOLERANCE ON HOLE DIAMETER TO REFLECT RIVET DIAMETER.



SHEET 8, ZONE D4 IS:

DOCUMENTS EFFECTED:

☐ RFMS ☐ MDL ☐ INSTALL INSTRU ☐ ICA ☐ BDM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☐ YES ☒ NO

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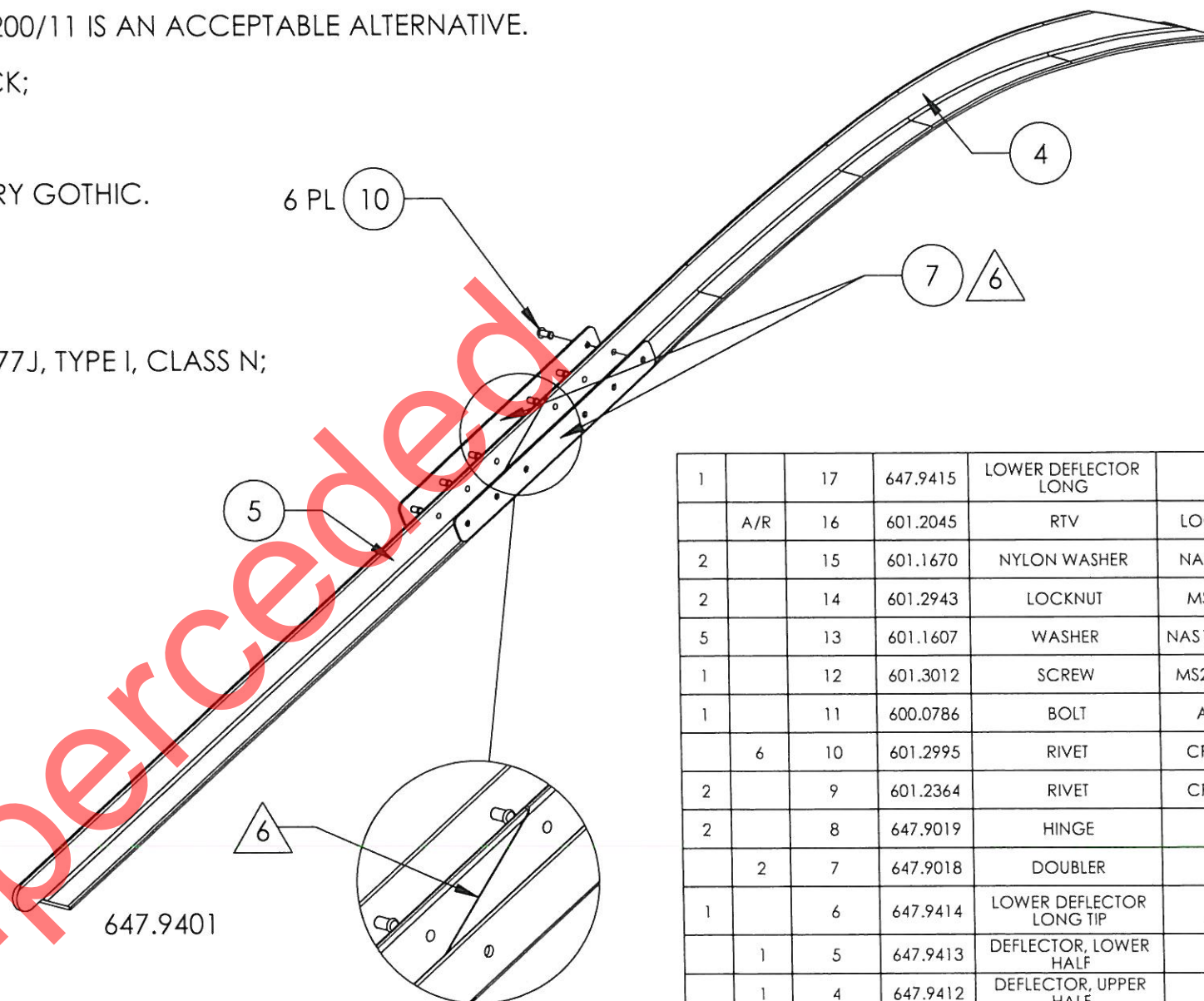
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
N/C	LAST PROTOTYPE RELEASE PR1		
N/C	INITIAL RELEASE	06-09-10	P. BRAVO
A	INCORPORATE ECN 03027, 03065, 03215 AND 03654	10-23-12	J. GARDINER

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12. AMS-QQ-A-200/11 IS AN ACCEPTABLE ALTERNATIVE.
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
3. DE BURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION, 12 PT. CENTURY GOTHIC.
5. ALL DIMENSIONS SHOWN PRIOR TO FINISH.
- 6 APPLY F/N 17 TO FAYING SURFACES.
- 7 FINISH: PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N; 1-2 MIL MAX. APPLY FINISH AFTER ASSEMBLY.
- 8 TORQUE 15-20 IN.-LBS.
- 9 DIMENSION SHOWN IS FOR INSPECTION AFTER FINISHING.

UNINCORPORATED ECN(s)

03739,



1		17	647.9415	LOWER DEFLECTOR LONG		
	A/R	16	601.2045	RTV	LOCTITE 598	
2		15	601.1670	NYLON WASHER	NAS1515H3L	
2		14	601.2943	LOCKNUT	MS21042-3	
5		13	601.1607	WASHER	NAS1149F0332P	
1		12	601.3012	SCREW	MS27039-1-15	
1		11	600.0786	BOLT	AN3C7A	
	6	10	601.2995	RIVET	CR3213-6-6	
2		9	601.2364	RIVET	CR3213-4-8	
2		8	647.9019	HINGE		
	2	7	647.9018	DOUBLER		
1		6	647.9414	LOWER DEFLECTOR LONG TIP	1	2 7
	1	5	647.9413	DEFLECTOR, LOWER HALF	1	2
	1	4	647.9412	DEFLECTOR, UPPER HALF	1	2
1		3	647.9501	QUICK RELEASE PIN ASSY		
		2	647.9411	UPPER DEFLECTOR	1	2 7
		1	647.9410	LOWER DEFLECTOR	1	2 7
			647.9402	LOWER DEFLECTOR LONG ASSY		
			647.9401	DEFLECTOR ASSY		7
.9402	.9401	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

QTY		PARTS LIST			
NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR)	06-09-10	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
647.8900		DRAWN BY	R. ROSANO		
647.9200		CHECKER	P. BRAVO		
		DRAWING APPROVAL	P. BRAVO	DEFLECTORS	
		CONTRACT No.			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°		SIZE	REV.
				B 07M26	A
				DWG. NO.	
				647.9400	
				SCALE	SHEET
				NONE	1 OF 9

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A

B

C

D

54.664^{+.010}
-.000

9.000

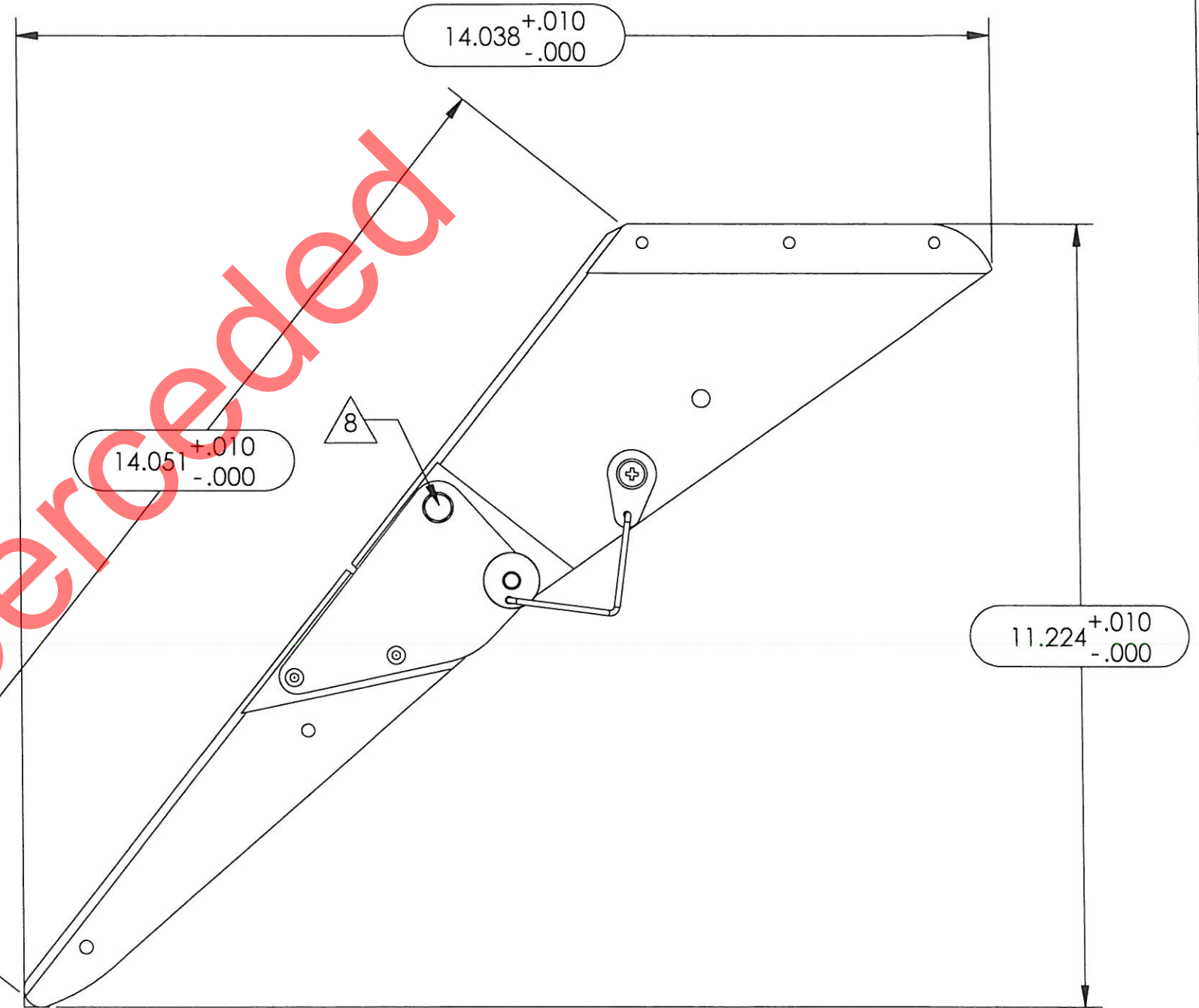
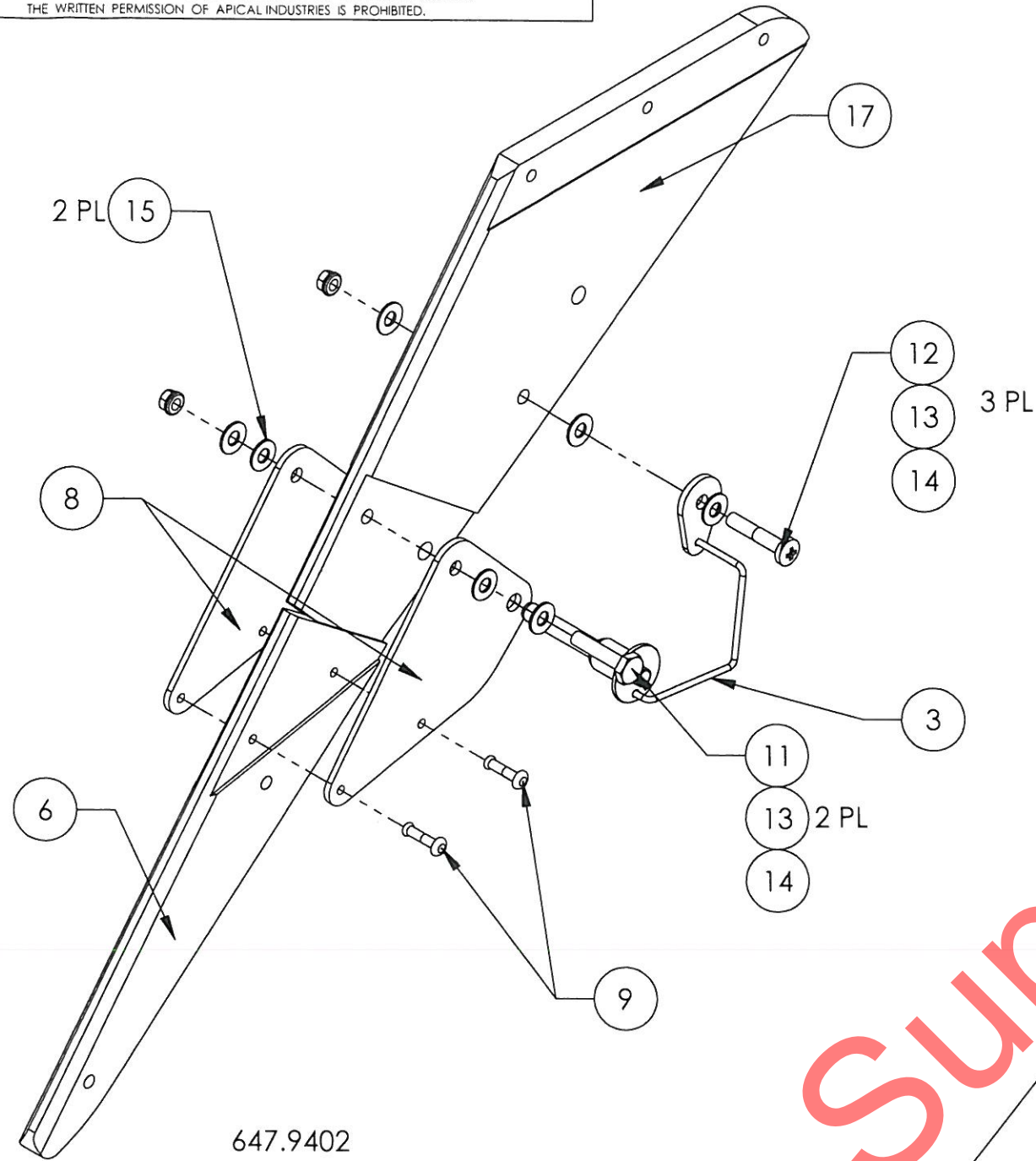
20.272^{+.010}
-.000

Superseded

ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-09-10		DEFLECTORS	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV A
		CAGE CODE 07MZ6	DWG. NO. 647.9400
SCALE NONE		SHEET 2 OF 9	

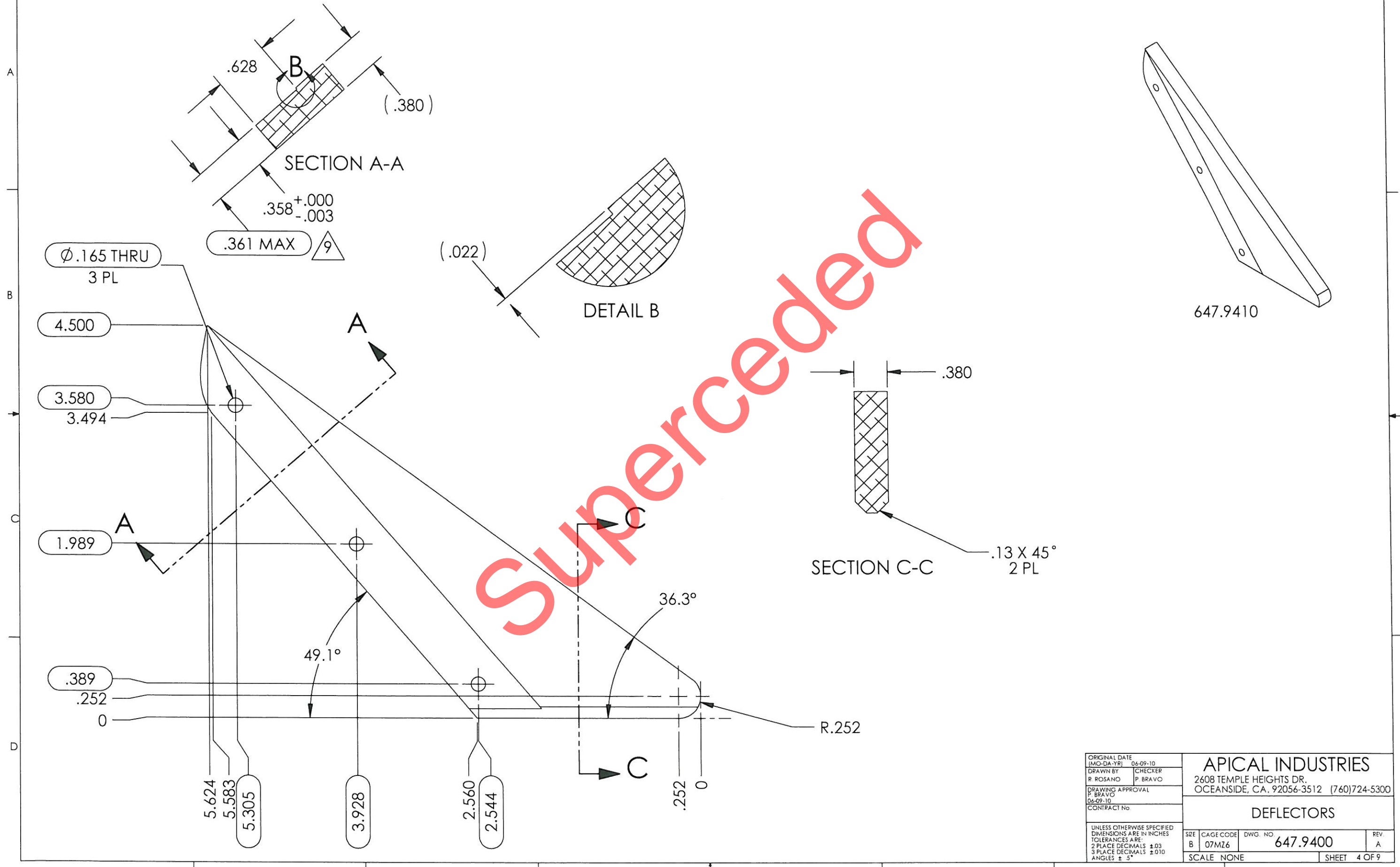
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A
B
C
D



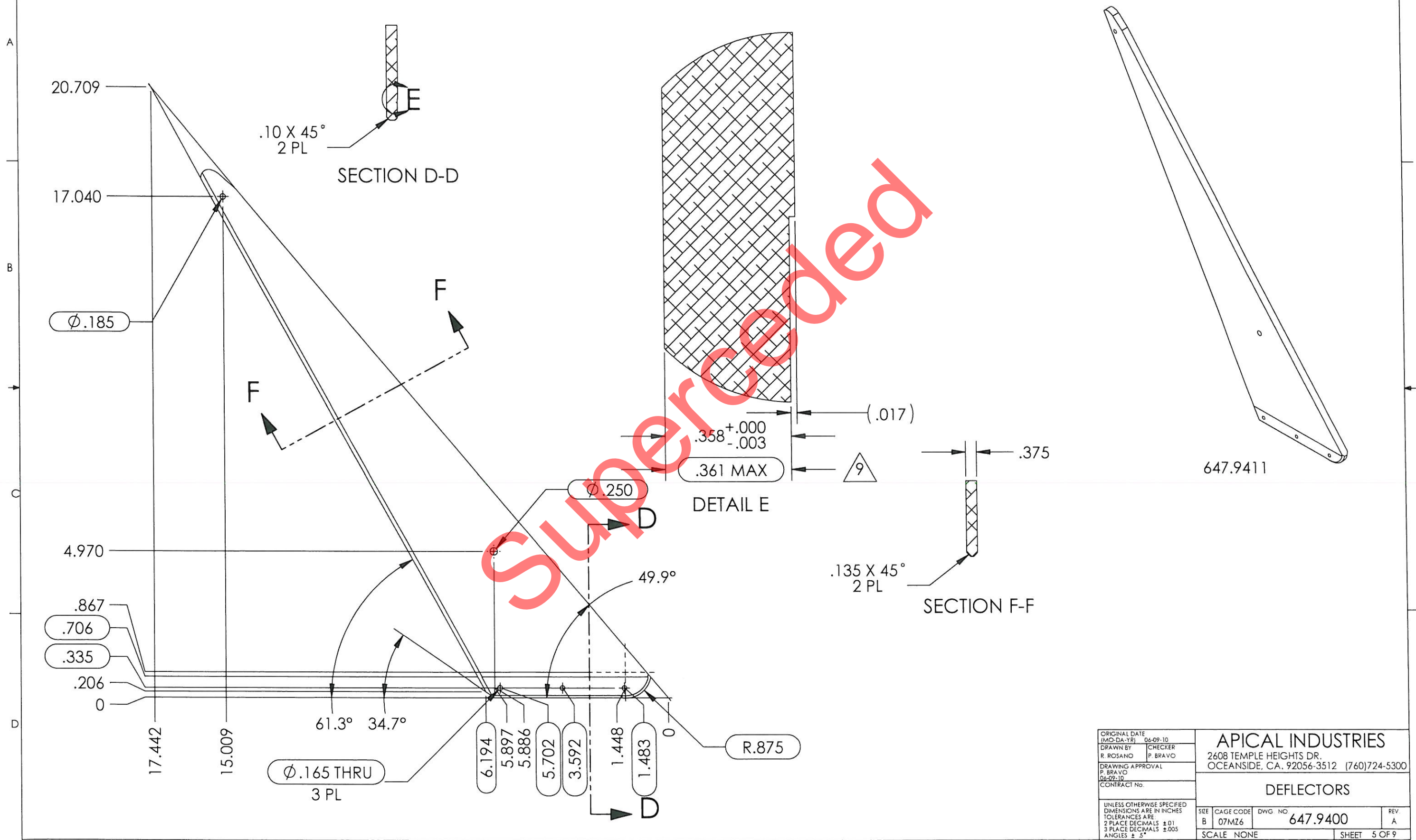
ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-09-10		DEFLECTORS	
CONTRACT No.		DWG. NO. 647.9400	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .03$ 3 PLACE DECIMALS $\pm .010$ ANGLES $\pm .5^\circ$		SIZE B 07MZ6	REV. A
SCALE NONE		SHEET 3 OF 9	

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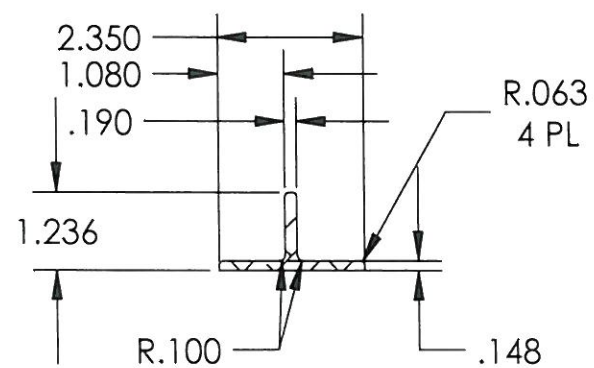
ORIGINAL DATE (MM-DD-YY) 06-09-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		DEFLECTORS	
DRAWING APPROVAL P. BRAVO		REV. A	
CONTRACT No.		DWG. NO. 647.9400	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°		SIZE B	CAGE CODE 07M26
		SCALE NONE	
		SHEET 4 OF 9	

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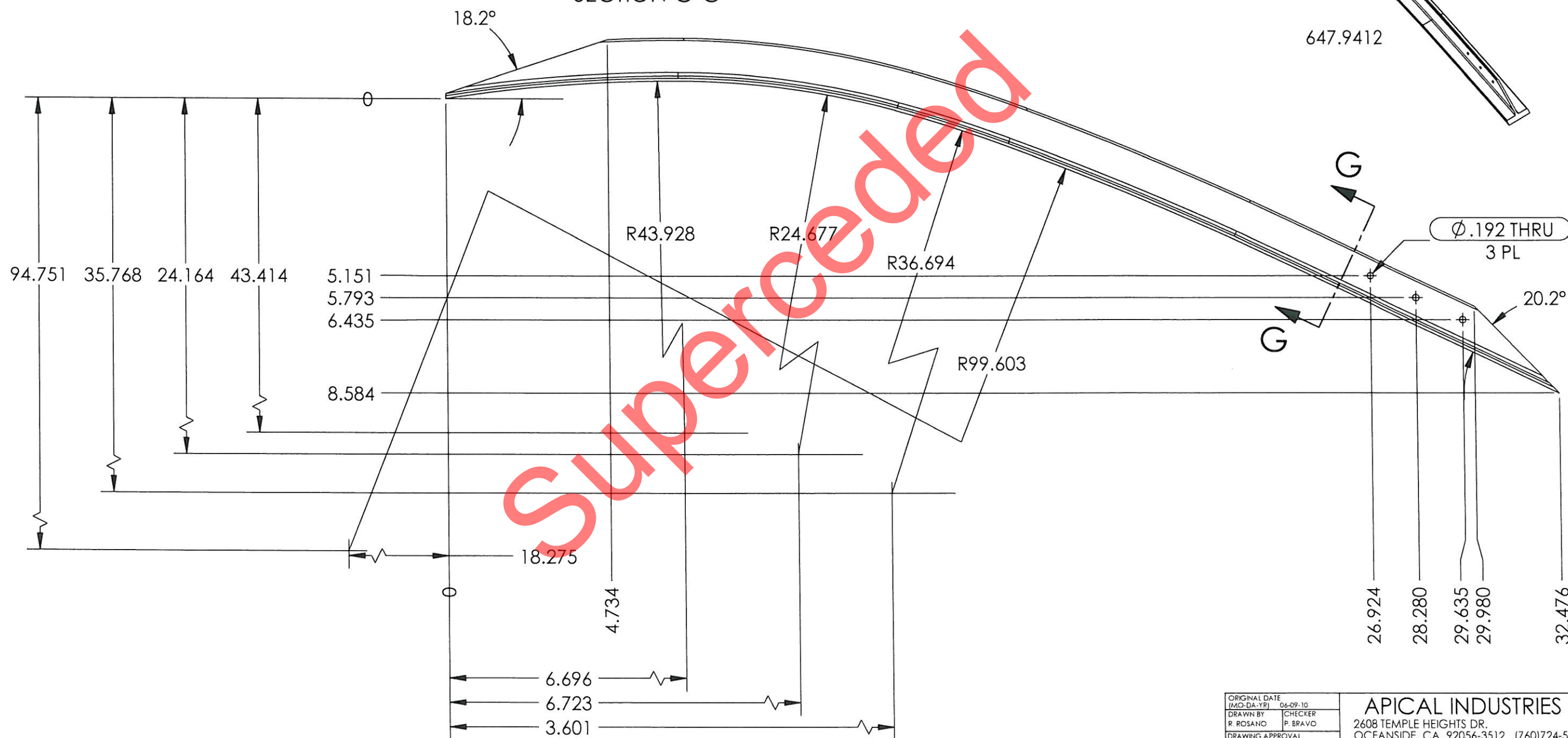


ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO	CHECKER P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO 06-09-10		DEFLECTORS	
CONTRACT No.		SIZE B	REV. A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		CAGE CODE 07MZ6	DWG. NO. 647.9400
		SCALE NONE	SHEET 5 OF 9

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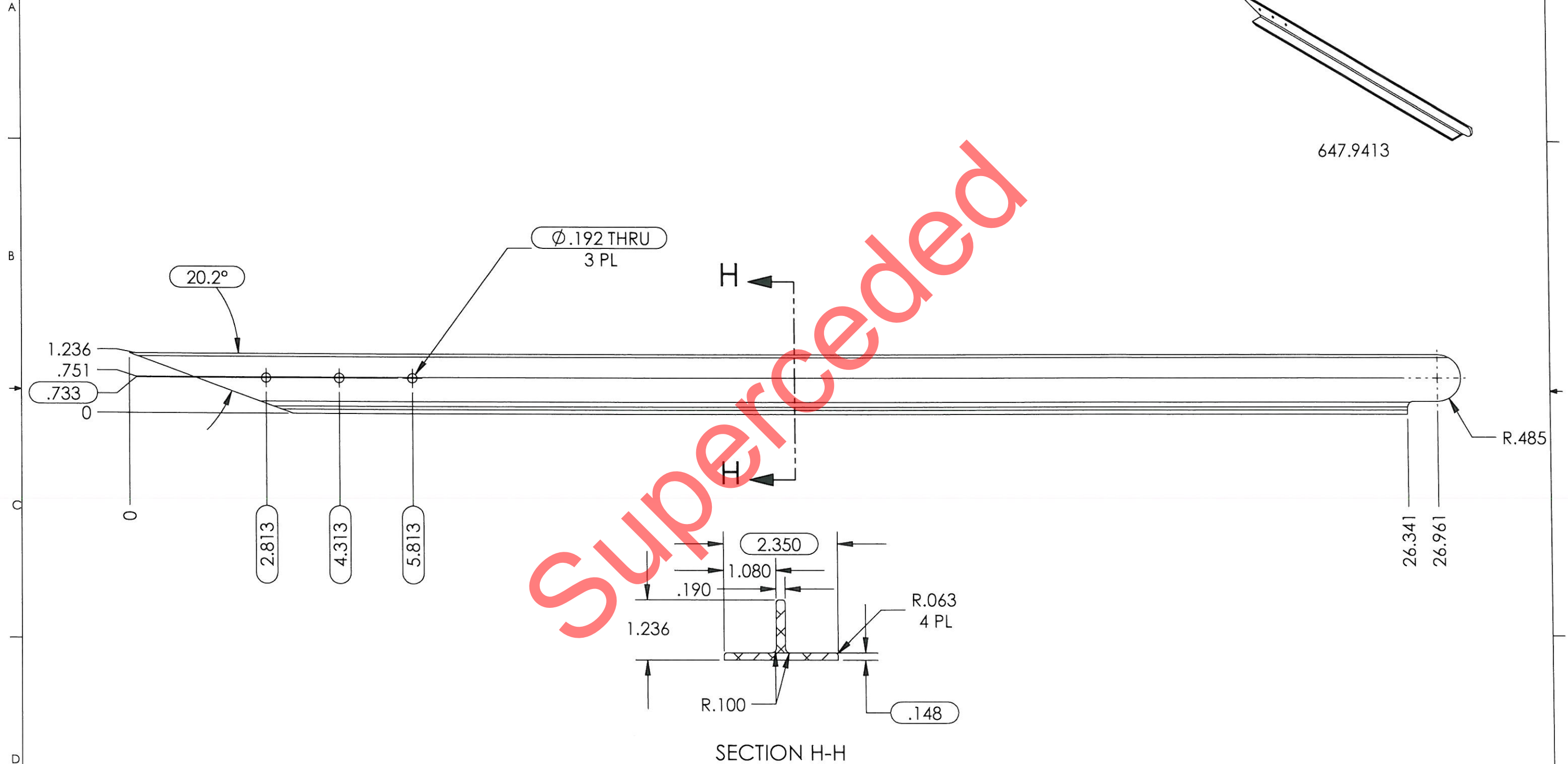


SECTION G-G



ORIGINAL DATE 11-01-19	06-09-10	<h1 style="text-align: center;">APICAL INDUSTRIES</h1> <p style="text-align: center;">2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300</p>	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO			
06-09-10			
CONTRACT NO.		<h2 style="font-size: 2em;">DEFLECTORS</h2>	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .001 3 PLACE DECIMALS ± .005 ANGLES ± .5°			
SIZE B	CAGE CODE 07MZ6	DWG. NO. <div style="font-size: 1.5em;">647.9400</div>	REV A
SCALE NONE			SHEET 6 OF 8

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ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO	CHECKER P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO 06-09-10		DEFLECTORS	
CONTRACT No.		SIZE B	REV. A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07M26	DWG. NO. 647.9400
		SCALE NONE	SHEET 7 OF 9

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.13 x 45°
2 PL

SECTION J-J

(.280)

.380

.050

2 PL

SECTION K-K

647.9414

11.136

R.253

7.470

R2.982

6.597

2.190

1.700

.558

0

2.200

.245

0

.023

.088

.240

.326

.936

1.306

2.063

2.112

Ø.130 2PL

88.7°

78.0°

48.9°

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

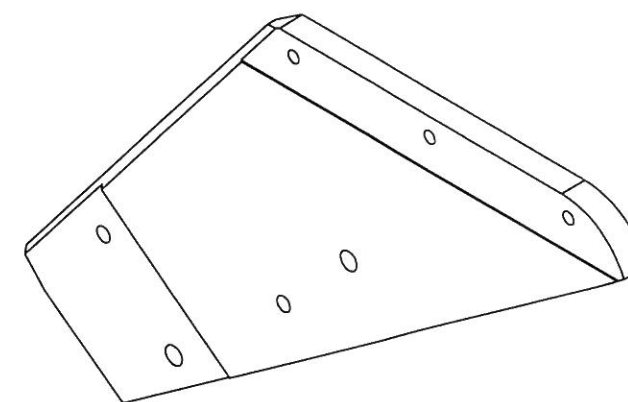
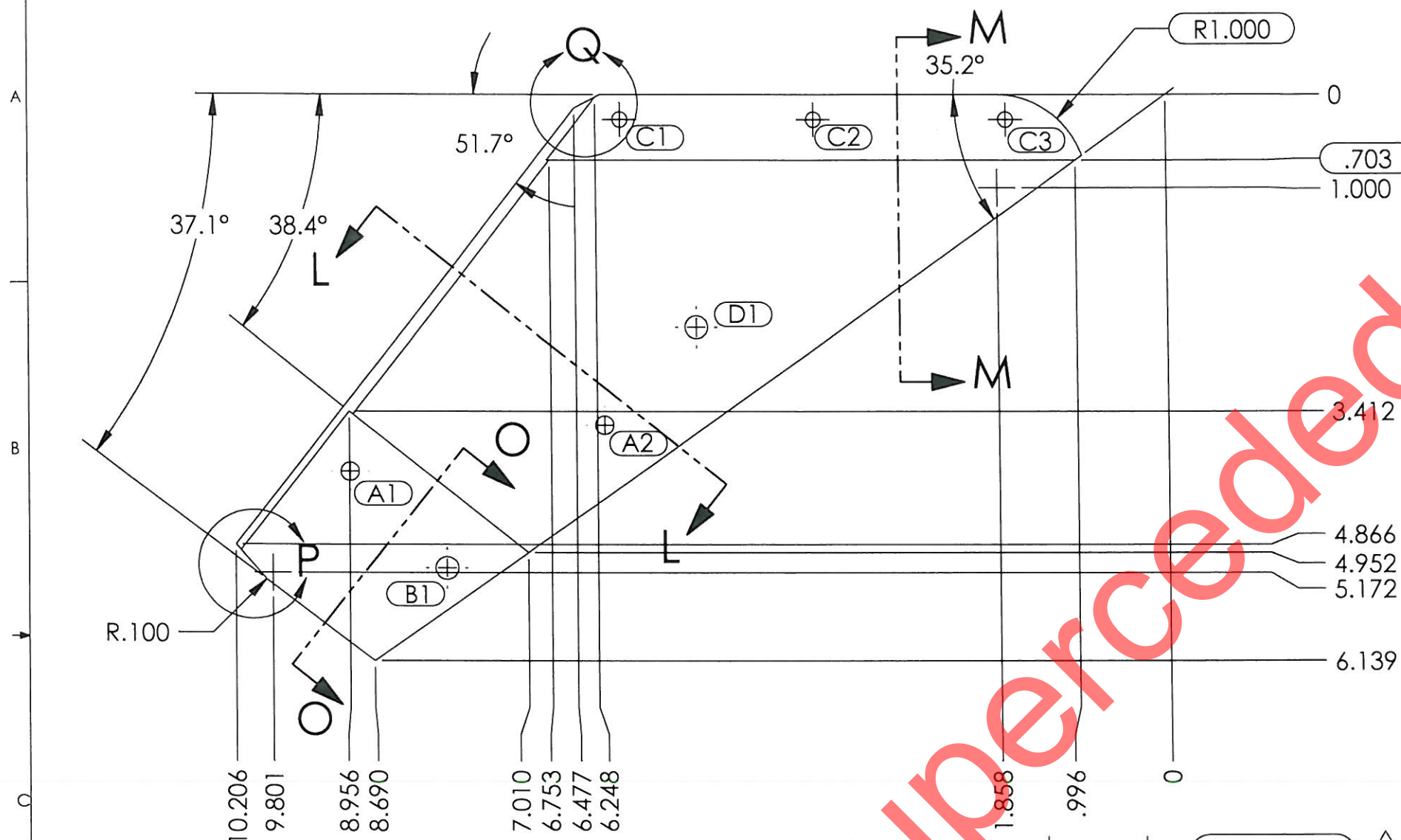
DEFLECTORS

ORIGINAL DATE
(MO-DA-YR) 06-09-10
DRAWN BY
R. ROSANO
CHECKER
P. BRAVO
DRAWING APPROVAL
P. BRAVO
06-09-10
CONTRACT NO.

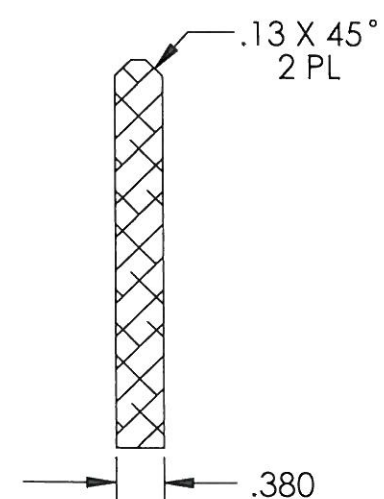
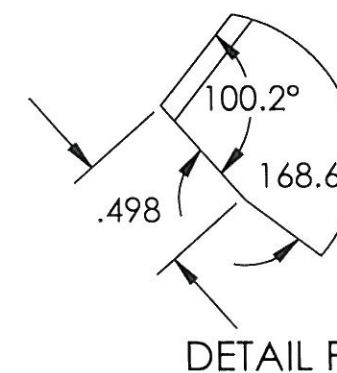
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°

SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.9400	A
SCALE NONE			SHEET 8 OF 9

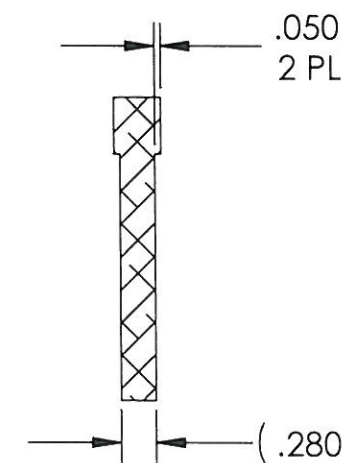
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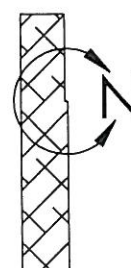
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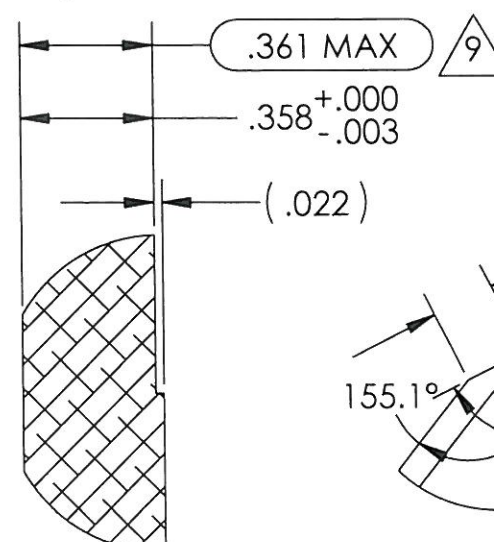
SECTION L-L



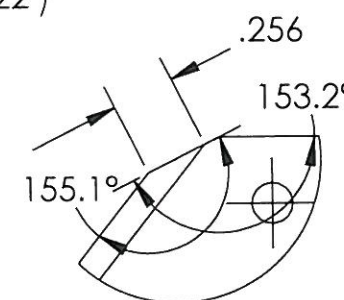
SECTION O-O



SECTION M-M



DETAIL N



DETAIL Q

TAG	X LOC	Y LOC	SIZE
A1	-8.949	-4.066	Ø .201
A2	-6.172	-3.562	Ø .201
B1	-7.903	-5.121	Ø .250
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ORIGINAL DATE
(MO-DA-YR) 06-09-10
DRAWN BY
R. ROSANO
CHECKER
P. BRAVO
DRAWING APPROVAL
P. BRAVO
06-09-10
CONTRACT NO.

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°

SIZE	CAGE CODE	DWG. NO.	REV.
B	07M26	647.9400	A
SCALE NONE			SHEET 9 OF 9